

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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APPLICATION NUMBER : 56025646

APPLICANT : NIPPON SHEET GLASS CO LTD;

INVENTOR : ATAKA KOICHI;

INT.CL. : C03C 15/00 C03C 17/23 C03C 23/00

TITLE : REMOVING METHOD FOR METALLIC OXIDE FILM

ABSTRACT : PURPOSE: To easily obtain a substrate having a stuck metallic oxide film of a prescribed shape by coating part of a metallic oxide film of Fe oxide or the like stuck to a substrate with a synthetic resin sheet and treating the film with a heated aqueous acid soln.

CONSTITUTION: To provide electric conductivity, chromatic, decorative and mirror effects, etc. to a substrate of glass or the like a film of  $\geq 1$  kind of metallic oxide selected from Fe, Cr, Co, Ti, Cu, Ni, Mn, Zn, In, Al, V, Mo and W oxides or said metallic oxide and  $\leq 20\text{wt}\%$  SnO is stuck to the substrate, and the desired part of the film is coated with an acid-proof synthetic resin sheet of vinyl chloride resin or the like using a thermoplastic resin such as polyvinyl alcohol or a thermosetting resin such as phenol resin as an adhesive. The film is then treated with a  $\geq 4\text{wt}\%$  aqueous soln. of  $\geq 1$  kind of acid selected from sulfuric acid, nitric acid, hydrochloric acid and phosphoric acid or a mixture of said soln. with other acid soln. at  $\geq 80^\circ\text{C}$  to dissolve and remove the uncoated part of the film. Then, a metallic oxide film of the desired shape is obtd.

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ATAKA KOICHI;**Assignee: **NIPPON SHEET GLASS CO LTD**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **Aug. 30, 1982 / Feb. 24, 1981**Application Number: **JP1981000025646**IPC Code: **C03C 15/00; C03C 17/23; C03C 23/00;**Priority Number: **Feb. 24, 1981 JP1981000025646**

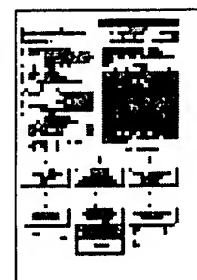
Abstract:

PURPOSE: To easily obtain a substrate having a stuck metallic oxide film of a prescribed shape by coating part of a metallic oxide film of Fe oxide or the like stuck to a substrate with a synthetic resin sheet and treating the film with a heated aqueous acid soln.

CONSTITUTION: To provide electric conductivity, chromatic, decorative and mirror effects, etc. to a substrate of glass or the like a film of  $\geq 1$  kind of metallic oxide selected from Fe, Cr, Co, Ti, Cu, Ni, Mn, Zn, In, Al, V, Mo and W oxides or said metallic oxide and  $\leq 20\text{wt}\%$  SnO is stuck to the substrate, and the desired part of the film is coated with an acid-proof synthetic resin sheet of vinyl chloride resin or the like using a thermoplastic resin such as polyvinyl alcohol or a thermosetting resin such as phenol resin as an adhesive. The film is then treated with a  $\geq 4\text{wt}\%$  aqueous soln. of  $\geq 1$  kind of acid selected from sulfuric acid, nitric acid, hydrochloric acid and phosphoric acid or a mixture of said soln. with other acid soln. at  $\geq 80^\circ\text{C}$  to dissolve and remove the uncoated part of the film.

Then, a metallic oxide film of the desired shape is obtd.

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Family:

PDF	Publication	Pub. Date	Filed	Title
	<b>JP57140339A2</b>	Aug. 30, 1982	Feb. 24, 1981	KINZOKUSANKABUTSUHIMAKUNOJOKYO
	<b>JP1042902B4</b>	Sept. 18, 1989	Feb. 24, 1981	KINZOKUSANKABUTSUHIMAKUNOJOKYO

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References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6406639	2002-06-18	Sakaguchi; Koichi	Nippon Sheet Glass Co., Ltd.	Method of partially forming oxide layer on glass substrate
	US6231924	2001-05-15	Sakaguchi; Koichi	Nippon Sheet Glass Company, Limited	Method of partially forming oxide layer
	US5720791	1998-02-24	Miyaura; Tomoko	Minolta Co., Ltd.	Method of producing an optical lens element

Other Abstract  
Info:

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